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CONFIDENTIAL

July 2, 1964

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Subject: Transmittal of Documents

Reference: Monthly Progress Report - Contract [REDACTED]

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Gentlemen:

Enclosed please find two (2) copies of the first monthly Progress Report for the Zoom Magnifier project.

If you have any questions concerning this matter, please contact the writer directly.

Very truly yours,

[REDACTED]
Photogrammetric Contracts Section

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GJJ:bp
cc: Contracting Officer

Group 1
Exclude from automatic
downgrading and
declassification

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FIRST MONTHLY PROGRESS REPORT
FOR A
ZOOM MAGNIFIER

Each monthly progress report for the Zoom Magnifier will cover the period from the 21st of the previous month to the 20th of the current month. Thus, this first progress report covers the period 21 May 1964 to 20 June 1964.

The initial design used for the Zoom Magnifier technical proposal was used as the take off point for this month's optical design effort. After reviewing the design early in the month, consideration was given toward reducing aberrations; namely, distortion, astigmatism, and coma throughout the zoom range (8x - 18x) while covering the desired field. A system was designed which worked well at 8x magnification and covered a field of approximately 15mm. However, at the higher powers, the aberrations were excessive, necessitating considerable correction for their removal. Substitutions are now being made for all components of the initial design to improve performance at high powers. Minutes of a meeting held on May 26 are attached.

CUSTOMER VISIT: May 26, 1964

STATINTL Present:



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This meeting was held shortly after receipt of the order for the Zoom Magnifier and as such, only the review of the initial design was in progress.

The question regarding the method of determining whether the performance incentives are met was discussed. One incentive in particular, the resolution of the magnifier, may easily vary with observer.

It was suggested, therefore, that [redacted] draw up a set of tests to determine performance incentives. This set of tests would serve as a first draft from which a final set of tests would be agreed upon at a meeting of [redacted] and U. S. Government personnel.

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Research & Development
Photogrammetry Department